

# ACI Inspector Certification Programs: Concrete Construction Special Inspector

## **Certification Program:**

ACI Inspector Certification Programs

## **Certification Level:**

Concrete Construction Special Inspector

## **Course Objective:**

To instruct and prepare individuals for the ACI Concrete Construction Special Inspector certification exam.

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## Definition

A **Concrete Construction Special Inspector** is a person qualified to inspect and record the results of concrete construction inspection based on codes and job specifications. The program covers inspection during preplacement, placement, and post-placement operations.

An **Associate Concrete Construction Special Inspector** is a person who is knowledgeable about inspection procedures for concrete construction, including preplacement, placement, and post-placement operations; but does not have the experience required to qualify as an ACI Concrete Construction Special Inspector.

## Scope and Knowledge

The programs require a knowledge of concrete construction, including plans reading, formwork installation and removal, reinforcements, embedments, sampling and testing freshly mixed concrete, conveying, placing, consolidation, finishing, jointing curing, and protection.

The technical resource materials used in these programs include the following:

### ACI PUBLICATIONS

- SP-2 - Manual of Concrete Inspection
- ACI Concrete Terminology
- 117 - Tolerances for Concrete Construction and Materials
- 213R - Guide for Structural Lightweight-Aggregate Concrete
- 301 - Specifications for Structural Concrete
- 302.1R - Floor and Slab Construction
- 304R - Measuring, Mixing, Transporting and Placing Concrete
- 304.2R - Placing Concrete by Pumping Methods
- 305R - Hot Weather Concreting
- 306R - Cold Weather Concreting
- 308 - Curing Concrete
- 309R - Consolidation of Concrete
- 318 - Building Code Requirements for Reinforced Concrete
- 347 - Formwork for Concrete

### ASTM PUBLICATIONS

- C29/C29M - Unit Weight and Voids in Aggregates
- C94/C94M - Specification for Ready-Mixed Concrete
- E329 - Evaluation of Testing and Inspection Agencies

#### OTHER PUBLICATIONS

- MSP-1 - Manual of Standard Practice, Concrete Reinforcing Steel Institute
- EB001 - Design and Control of Concrete Mixtures, Portland Cement Association